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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/749,808

12/31/2003

Matthias Wobbe

2058.223US1

5346

50400

7590

11/21/2008

SCHWEGMAN, LUNDBERG & WOESSNER/SAP

P.O. BOX 2938

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EXAMINER

KIM, TAE W

ART UNIT

PAPER NUMBER

2887

MAIL DATE

DELIVERY MODE

11/21/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/749,808	Applicant(s) WOBBE ET AL.	
	Examiner TAE W. KIM	Art Unit 2887	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Receipt is acknowledged of the RCE filed on September 30, 2008.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made. Apparatus

3. Claims 1-8, 16-19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer (US 20030216969 A1) in view of Horwitz (US 20030083964 A1).

With respect to claim 1, Bauer discloses an asset management system for the management of assets, the asset management system comprising:

a master data management system (fig 2) for the management of master data (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: "SKUs," "Serial Numbers," par. 0008: "unique identification number", par. 0031: indemnification information unique to the item... such as serial number or price number." par. 0036: "Stock Keeping Unit (SKU)") pertaining to objects selected from among the assets (170 in fig 1 & 2); and

a radio-frequency identification system (par. 0031, 0133), said radio-frequency identification system comprising radio-frequency identification tags coupled to associated

objects in said assets (par 0031: “RFID tag may include identification information unique to the item that the tag is attached”), each said radio-frequency identification tag containing detailed object information (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: “SKUs,” “Serial Numbers,” par. 0008: “unique identification number”, par. 0031: indemnification information unique to the item... such as serial number or price number.” par. 0036: “Stock Keeping Unit (SKU)”, par. 0185-0186), said detailed object information comprising information for said associated object,

wherein master data is selected from object data (par. 0036-0080: extensive examples of object data), and wherein the radio-frequency identification system enables identification of the objects within the master data management system.

However, Bauer does not disclose or fairly suggests that a tag contains updated information for said associated object after performing physical maintenance or configuration directly to said associated object.

Horwitz however discloses that a tag contains updated information (0045: “if read/write tags are used, the cluster ID may be stored in a cluster field of each tag”) for said associated object after performing physical maintenance or configuration directly to said associated object (0045: “items are grouped into a cluster according to the normal packaging method”, 0058).

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Horwitz’s teaching in the asset management system of Bauer for the purpose of being able to determine cluster ID even when central database is unavailable (Horwitz: 0058).

With respect to claim 2, Bauer modified by Horwitz discloses the asset management

system as set forth in claim 1, wherein an initial version of said detailed object information is placed onto said radio- frequency identification tag by a manufacturer of said associated object (par 0174: “source-tagged”, par 0183: “the EPC writer may record the 12- or 13-digit UPC number electronically

at the time when the serial number is assigned and the RFID tag 280 is applied to the package of the item.”).

With respect to claim 3, Bauer modified by Horwitz discloses the asset management system as set forth in claim 2, wherein selections of master data are stored on the radio- frequency identification tag (par 0031: “RFID tag may include identification information unique to the item that the tag is attached”).

With respect to claim 4, Bauer modified by Horwitz discloses the asset management system as set forth in claim 1, wherein critical object information (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: “SKUs,” “Serial Numbers,” par. 0008: “unique identification number”, par. 0031: indemnification information unique to the item... such as serial number or price number.” par. 0036: “Stock Keeping Unit (SKU)”) is stored as master data in the master data management system, and wherein the critical object information (descriptive words, detailed and critical, have boundless and broad meanings.) comprises a subset of said detailed object information stored on said radio-frequency identification tag (par 0183-0185).

With respect to claim 5, Bauer modified by Horwitz discloses the asset management system as set forth in claim 1, wherein the selections of master data include at least one fade out indicator (par 0201: “items that are going to expire within a certain period of time”), and wherein the at least one fade out indicator is stored as master data in the master data management system

(par. 0040, 0055).

With respect to claim 6, Bauer modified by Horwitz discloses the asset management system as set forth in claim 1, wherein the radio-frequency identification system further includes at least one of a radio-frequency transceiver (270 in fig 2), and wherein the radio-frequency transceiver is capable of receiving from and transmitting to the radio-frequency identification tag the selections of master data (par. 0133: “DCS 160 may acquire the requested data from RFID tags 280 through one or more antenna 270.” par. 0134: “When a corresponding antenna 270 is activated by DCS 160, information within any RFID tags 280 located within a readable proximity of the activated antenna may be retrieved and provided to DCS 160. The RFID tags 280 respond to RF energy emitted by antenna 270, and this response is sensed by reader 262,”)

With respect to claim 7, Bauer modified by Horwitz discloses the asset management system as set forth in claim 1, wherein the master data management system includes dynamic object identification system (fig 2) and the dynamic object identification system includes an object criteria set (par. 0031: “RFID tag may include item information representing a type and/or associated characteristics of the item,” par. 0036: “Stock Keeping Unit (SKU) (i.e., information associated with an item reflecting at least a certain type of product (e.g., item type), made by a certain manufacturer, in a certain size, color, style, etc. or any of the information from par. 0037-0059)”), an object rule set (steps 520-550 in fig 5, steps 610-620 in fig 6, steps 710-780 in fig 7), and an object identification system.

With respect to claim 8, Bauer modified by Horwitz discloses the asset management system as set forth in claim 7, wherein the object criteria set includes variables (any from par. 0037-0059) and possible values, wherein the object rule set includes rules (steps 520-550 in fig

5, steps 610-620 in fig 6, steps 710-780 in fig 7) incorporating the variables (par. 0040: “shelf life”), and the object identification system includes a globally unique identifier (par. 0031: “identification information unique”).

With respect to claim 16, Bauer discloses a method of asset management, the assets including objects, the method comprising:

storing critical object information about each of said object as master data (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: “SKUs,” “Serial Numbers,” par. 0008: “unique identification number”, par. 0031: indemnification information unique to the item... such as serial number or price number.” par. 0036: “Stock Keeping Unit (SKU)” in a master data management system (fig 2), and storing detailed object information about an associated object (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: “SKUs,” “Serial Numbers,” par. 0008: “unique identification number”, par. 0031: indemnification information unique to the item... such as serial number or price number.” par. 0036: “Stock Keeping Unit (SKU)”, par. 0185-0186) on a radio-frequency identification tag (280 in fig 2), coupled to said associated object (par 0031: “RFID tag may include identification information unique to the item that the tag is attached”),

wherein the detailed object information includes the critical object information.

However, Bauer does not disclose or fairly suggest that the said detailed object information comprising updated information for said associated object after performing physical maintenance or configuration directly to said associated object.

Horwitz however discloses that the said detailed object information comprising updated information (0045: “if read/write tags are used, the cluster ID may be stored in a cluster field of

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each tag”) for said associated object after performing physical maintenance or configuration directly to said associated object (0045: “items are grouped into a cluster according to the normal packaging method”, 0058).

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Horwitz’s teaching in the Bauer’s method for the purpose of being able to determine cluster ID even when central database is unavailable (Horwitz: 0058).

With respect to claim 17, Bauer modified by Horwitz discloses the method as set forth in claim 16, further comprising: associating at least one fade out indicator with the master data, wherein the at least one fade out indicator is stored as master data in the master data management system (par 0040, 0201).

With respect to claim 18, Bauer modified by Horwitz discloses the method as set forth in claim 16, further comprising: updating of at least one fade out indicator (par 0099: “calculate a reduced shelf life”) associated with the object upon the object being subject to specific physical maintenance (Horwitz: 0045: “items are grouped into a cluster according to the normal packaging method”).

With respect to claim 19, Bauer modified by Horwitz discloses the method as set forth in claim 18, wherein the at least one fade out indicator includes at least one of a fade out process (steps 710-720 in fig 7, par 0040, 0201) and at least one of a fade out endpoint (par 0040, 0201).

With respect to claim 20, Bauer discloses a computer program product (par 0082), tangibly embodied in an information carrier (par 0082: “magnetic, semiconductor, and/or optical type storage device”), for managing master data pertaining to an object, the computer program

product being operable to cause a data processing apparatus to:

store critical object information about an associated object (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: “SKUs,” “Serial Numbers,” par. 0008: “unique identification number”, par. 0031: indemnification information unique to the item... such as serial number or price number.” par. 0036: “Stock Keeping Unit (SKU)” as master data in a master data management system (fig 2), and

cause a radio-frequency transceiver to store detailed object information about an associated object (320, 330, & 340 in fig 3: UPC, Pseudo EPC, 438, 440, & 442 in fig 4: “SKUs,” “Serial Numbers,” par. 0008: “unique identification number”, par. 0031: indemnification information unique to the item... such as serial number or price number.” par. 0036: “Stock Keeping Unit (SKU)”, par. 0185-0186) on a radio-frequency identification tag (280 in fig 2) coupled to said associated object,

wherein the detailed object information includes the critical object information (par 0031: “RFID tag may include identification information unique to the item that the tag is attached”).

However, Bauer does not disclose or fairly suggest that the said detailed object information comprising updated information for said associated object after performing physical maintenance or configuration directly to said associated object.

Horwitz however discloses that the said detailed object information comprising updated information (0045: “if read/write tags are used, the cluster ID may be stored in a cluster field of each tag”) for said associated object after performing physical maintenance or configuration directly to said associated object (0045: “items are grouped into a cluster according to the normal packaging method”, 0058).

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Horwitz's teaching in the Bauer's method for the purpose of being able to determine cluster ID even when central database is unavailable (Horwitz: 0058).

4. Claims 9, 10, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer (US 20030216969 A1) modified by Horwitz (US 20030083964 A1) in view of Nicastro (US 20020073114 A1).

With respect to claim 9, Bauer modified by Horwitz discloses the asset management system as set forth in claim 8, wherein the dynamic object identification system assembles the globally unique identifier, wherein the globally unique identifier includes at least one coded segment (par. 0175 & 0182-0183 and Table IV: "EPC"), and wherein the at least one coded segment includes object data selected from a group consisting of at least one of a personal identification number, at least one of an external key, technical data, and administration data (par. 0175: "item type Information, ... serial numbers, SKU information, and manufacturer ID's", par. 0182-0183: "type of item...serial number," Table IV).

However Bauer modified by Horwitz does not disclose or fairly suggest the identifier based at least on user-determined parameters.

Nicastro however discloses an identifier based on user-determined parameters (par 0158: "The requirements or structure of a budget code number can be defined by the user." par 0400: "unique RFQ number... The number can be composed of several different components, such as the project number, or the company number, or other user-defined attributes." par 0440: "unique

bid number... The number can be composed of several different components, such as the project number, or the company number, or other user-defined attributes.”).

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Nicaastro’s teaching in the asset management system of Bauer modified by Horwitz for the purpose of allowing users to partially customize the identifier.

With respect to claim 10, Bauer modified by Horwitz and Nicaastro discloses the asset management system as set forth in claim 9, comprising the user-determined parameters (Nicaastro: par 0158: “The requirements or structure of a budget code number can be defined by the user.” par 0400: “unique RFQ number... The number can be composed of several different components, such as the project number, or the company number, or other user-defined attributes.” par 0440: “unique bid number... The number can be composed of several different components, such as the project number, or the company number, or other user-defined attributes.”).

However Bauer modified by Horwitz and Nicaastro does not discloses or fairly suggests that the parameter comprises of at least one variable from the object criteria set and at least one rule from the object rule set.

Bauer, in further considerations, discloses that the parameter comprises of at least one variable from the object criteria set (any from par. 0037-0059) and at least one rule from the object rule set (steps 520-550 in fig 5, steps 610-620 in fig 6, steps 710-780 in fig 7).

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Bauer’s additional teaching in the asset

management system of Bauer modified by Horwitz and Nicaastro for the purpose of creating a unique identifier by incorporating the object criteria and rules. Incorporating rules and criteria that will produce different outcome for each asset item would ensure the uniqueness of the identifier from one item to another.

With respect to claim 12, Bauer modified by Horwitz and Nicaastro discloses the asset management system as set forth in claim 9, wherein the administration data include contextual data (Bauer: par. 0175: “item type Information”, par. 0182-0183: “type of item,” Item type can be contextual. For example a bottle of vinegar can be categorized as a cleaning agent or a cooking additive based on the context.)

1. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer (US 20030216969 A1) modified by Horwitz (US 20030083964 A1) and Nicaastro (US 20020073114 A1) in view of Cesar (US 6172596 B1).

With respect to claim 11, Bauer modified by Horwitz and Nicaastro discloses the asset management system as set forth in claim 9.

However, Bauer modified by Horwitz and Nicaastro does not discloses or fairly suggests that the technical data include a multi-level data storage hierarchy, wherein the personal identification number comprises a segmented series of level identification codes, and wherein the series of level identification codes relate to the multi-level data storage hierarchy.

Cesar however discloses that the technical data include a multi-level data storage hierarchy (fig 7, 7A & 7B, col 11 lines 20-28), wherein the personal identification number comprises a segmented series of level identification codes, and wherein the series of level

identification codes relate to the multi-level data storage hierarchy (fig 7, 7A & 7B, col 10 lines 47-52).

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Cesar's teaching in the asset management system of Bauer modified by Horwitz and Nicastro for the purpose of structuring an identification number in a manner that illustrates the hierarchical interrelationship among the data.

5. Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer (US 20030216969 A1) modified by Horwitz (US 20030083964 A1) and Nicastro (US 20020073114 A1) in view of Seelinger (US 20020087554 A1).

With respect to claim 13, Bauer modified by Horwitz and Nicastro discloses the asset management system as set forth in claim 9.

However Bauer modified by Horwitz and Nicastro does not disclose or fairly suggests that the globally unique identifier includes at least one fade out indicator.

Seelinger, however, discloses that the globally unique identifier (par 0042: "Bar code refers to the symbol, as defined by the Health Industry Business Communication Council (HIBCC) or Uniform Code Council (UCC), affixed to a medication or supply product to identify that item") includes at least one fade out indicator (par 0042: "Bar code may also contain additional information such as ... "use before" or expiration date,").

Therefore, it would have been obvious at the time the invention was made to a person having ordinarily skill in the art to incorporate Seelinger's teaching in the asset management system of Bauer modified by Horwitz and Nicastro for the purpose of making the id code to

contain useful information in addition to the standard identifying information. Thus when the id code is decoded a person or a processor can further process the fade-out information along with the identifying information without additional prompts.

With respect to claim 14, Bauer modified by Horwitz, Nicastro, and Seelinger discloses the asset management system as set forth in claim 13, wherein the fade out indicator includes at least one of a fade out process (Bauer: steps 710-720 in fig 7, par 0040, 0201) and at least one of a fade out endpoint (Bauer: par 0040, 0201).

With respect to claim 15, Bauer modified by Horwitz, Nicastro, and Seelinger discloses the asset management system as set forth in claim 14, wherein the fade out process includes one of passing time (Bauer: par 0040, 0201), using an object, and waiting for a condition to appear, and wherein the fade out endpoint includes one of attainment of a fade out date, completion of a fade out period (Bauer: par 0040, 0201), fulfillment of a fade out level of use, and appearance of a condition.

Response to Arguments

6. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Newly cited reference, Horwitz (US 20030083964 A1), teaches that a tag contains updated information (0045: "if read/write tags are used, the cluster ID may be stored in a cluster field of each tag") for said associated object after performing physical maintenance or configuration directly to said associated object (0045: "items are grouped into a cluster according to the normal packaging method", 0058).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAE W. KIM whose telephone number is (571)272-5971. The examiner can normally be reached on Mon-Fri 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve S. Paik can be reached on 571-272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tae W Kim/
Examiner, Art Unit 2887

/DANIEL WALSH/
Primary Examiner, Art Unit 2887